

PLANT DURING JANUARY

Beans, Beets, Cabbage, Cantaloupes, Carrots, Collards, Cauliflower, Cucumbers, Eggplant, Kale, Lettuce, Mustard, Parsley, Parsnips, Peas, Peppers, Potatoes, Radishes, Rape, Rutabagas, Spinach, Squash, Sweet Corn, Tomatoes, Turnips and Watermelons, but to obtain the best results, get

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to manufacture sulphuric acid. Alumina resulting as a by-product will be suitable for the manufacture of metallic aluminum. One large company has begun the manufacture of potash from alunite and is reported to have made some preliminary shipments. It is understood that another large concern is about to begin the erection of the necessary plant for the production of potash from this mineral.

Giant Kelp Beds: An ample supply of potash for the needs of farmers can be obtained from the giant kelp beds. These beds have been surveyed by the bureau of soils, and a report, accompanied by maps showing in detail their extent and location, recently has been issued. Harvesting is accomplished easily, as the kelp grows in open water, and barges fitted with mowing attachments can be used.

For utilizing the kelp several methods are feasible. It may be dried and ground. In this condition it contains all the salts originally present, which are mainly potassium chlorid and sodium chlorid. This material has ideal mechanical properties for use in mixed fertilizers. When the pure potassium chlorid is desired, it is necessary to separate the juice from the organic material and then to remove the sodium chlorid. The latter can be done readily by recrystallization; but the separation of the juice from the organic material is more difficult, for the reason that the kelp is non-fibrous, and in attempts to effect separation by filtration, the filters become clogged and unworkable. The problems yet to be worked out commercially are the best methods of drying the wet kelp and of effecting the ready and efficient separation of the plant juices from the organic material. Investigation of these questions has proceeded far enough to indicate that their solution should not be very difficult.

Three large concerns have begun operations for the manufacture of potash from kelp. While potash is indispensable in the preparation of fertilizers, it is also used for many other purposes, including the manufacture of matches, glass, liquid soap, and munitions. The prices offered under existing conditions by the manufacturers of such articles undoubtedly will cause practically the entire output of these concerns to be diverted from the fertilizer industry. It seems unlikely that normal conditions will be restored in the immediate future, and that potash can be secured from foreign sources as heretofore in time for the next crop planting season. It also seems improbable that private enterprise will provide potash from domestic sources for agricultural purposes in time. It would require 90 or more plants, costing approximately \$50,000, and having an operating capital of about \$25,000 each, to produce the quantity needed for agriculture. This would involve the assumption that the commercial phases of the problem were satisfactorily solved. Even if the requisite funds were available, it is a question whether operations could begin in time to provide an adequate supply for the coming year. The department is investigating all aspects of the question, and is planning to send experts to California to study the situation and especially to consider possibilities of production on a commercial scale.

One fact has operated in a measure to embarrass private enterprise in this field. There is no legislation in any of the Pacific coast states, along whose shores the kelp lies, providing for the leasing of the kelp beds. Without leases private investors would have no assurance that plants erected by them would have the necessary control over the kelp within their vicinity. The department's officers will discuss this matter with the proper authorities in the Pacific coast states, and will urge the necessity of legislation regulating the use of the beds.

COLD PIGS FATEN SLOWLY.

It is false economy to leave the pigs out in the cold and wet. A. P. Spencer, district agent for the University of Florida Extension Division, would have the pigs sheltered because they cannot fatten as rapidly when they are exposed to all kinds of weather as when they are protected. The pig uses the same materials for keeping himself warm that he does for putting on fat. If he is left out in the weather he will require great quantities of food to supply heat to his body. This food is diverted from the fat stores and he does not fatten.

Food is pretty expensive fuel, yet many farmers are burning it prodigally to keep their hogs warm. A few planks which are rotting on the farm could be profitably diverted into a hog house. A hog house is cheaper than feed.

NOW HER FRIENDS HARDLY KNOW HER

But This Does Not Bother Mrs. Burton, Under the Circumstances.

Houston, Texas.—In an interesting letter from this city, Mrs. S. C. Burton writes as follows: "I think it is my duty to tell you what your medicine, Cardui, the woman's tonic, has done for me.

I was down sick with womanly trouble, and my mother advised several different treatments, but they didn't seem to do me any good. I lingered along for three or four months, and for three weeks, I was in bed, so sick I couldn't bear for any one to walk across the floor.

My husband advised me to try Cardui, the woman's tonic. I have taken two bottles of Cardui, am feeling fine, gained 15 pounds and do all of my housework. Friends hardly know me, I am so well."

If you suffer from any of the ailments so common to women, don't allow the trouble to become chronic. Begin taking Cardui to-day. It is purely vegetable, its ingredients acting in a gentle, natural way on the weakened womanly constitution. You run no risk in trying Cardui. It has been helping weak women back to health and strength for more than 50 years. It will help you. At all dealers.

Write for: Chattanooga Medicine Co., Ladies' Advisory Dept., Chattanooga, Tenn., for Special Instructions on your case and 64-page book, "Home Treatment for Women," sent in plain wrapper. 100-9

'T WAS EVER THUS.

Consider the editor. He weareth purple and fine linen. His abode is among the mansions of the rich. His wife bath her limousine and his first born sporteth a speedy space-eater. Lo! All the people breaketh their necks to hand him money.

A child is born unto the wife of a merchant in the bazaar. The physician getteth ten gold plunks. The editor writeth a stick and a half and telleth the multitude that the child tipteth the beam at nine pounds. Yet, he lieth even as a centurion. And the proud father giveth him a chromo.

Behold, the young woman groweth up and graduateth. And the editor putteth into his paper a small notice. Yes, a peach of a notice. He telleth of the wisdom of the young woman and of her exceeding comeliness. Like unto the rose of Sharon is she, and her gown is played up to beat the band, and the dressmaker getteth two score and four iron men. And the editor getteth a note of thanks from the S. G. G. The daughter goeth on a journey and the editor throweth himself on the story of the farewell party. It runneth a column solid. And the fair one remembereth him from afar with a picture postcard that costeth six for a jitney.

Behold, she cometh out and the youth of the city fall down and worship. She picketh one, and lo! she getteth a lemon. But the editor calleth him one of our most promising young men, and getteth away with it. And they send unto him a bid to the wedding feast, and behold, the bids are fashioned by Muntgomery Hawbuck, in a far city. Flowery and long is the wedding notice which the editor printeth. The minister getteth ten bones. The groom standeth the editor off for a twelve-months' subscription.

All flesh is grass and in time is gathered into the silo. The minister getteth his bit. The editor printeth a death notice, two columns of obituary, three lodge notices, a eulit of poetry and a card of thanks. He getteth to read proof on the head, and the fool thing comes out, "Gone to Her Roasting Place."

And all that are akin to the deceased jumpeth on the editor with exceeding great jumps. And they pulleth out their ads and cancelleth their subscriptions, and they swingeth the hammer even unto the third and fourth generations.

Canst thou beat it?—Exchange.

TAKE PRECAUTIONS AGAINST BLOOM DROP.

Bloom drop is another one of the troubles which arise to perplex the citrus grower. This disease is thought to be caused by a physiological condition of the plant, and not by an organism, according to B. F. Floyd, plant physiologist to the University of Florida Experiment Station. It must not be confused with the dropping caused by the thrips.

Although the cause of the disease is not known, it is believed that trees in healthy well-fed condition will not be bothered. After the trees have borne a crop they need some readily available plant food to set them right again. It is probable that an application of ammonia in either a complete or an incomplete fertilizer will prevent this form of bloom drop. Phosphoric acid also should be applied.

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